

APNIC Update

ARIN VIII

Miami, 28-31 October, 2001



APNIC

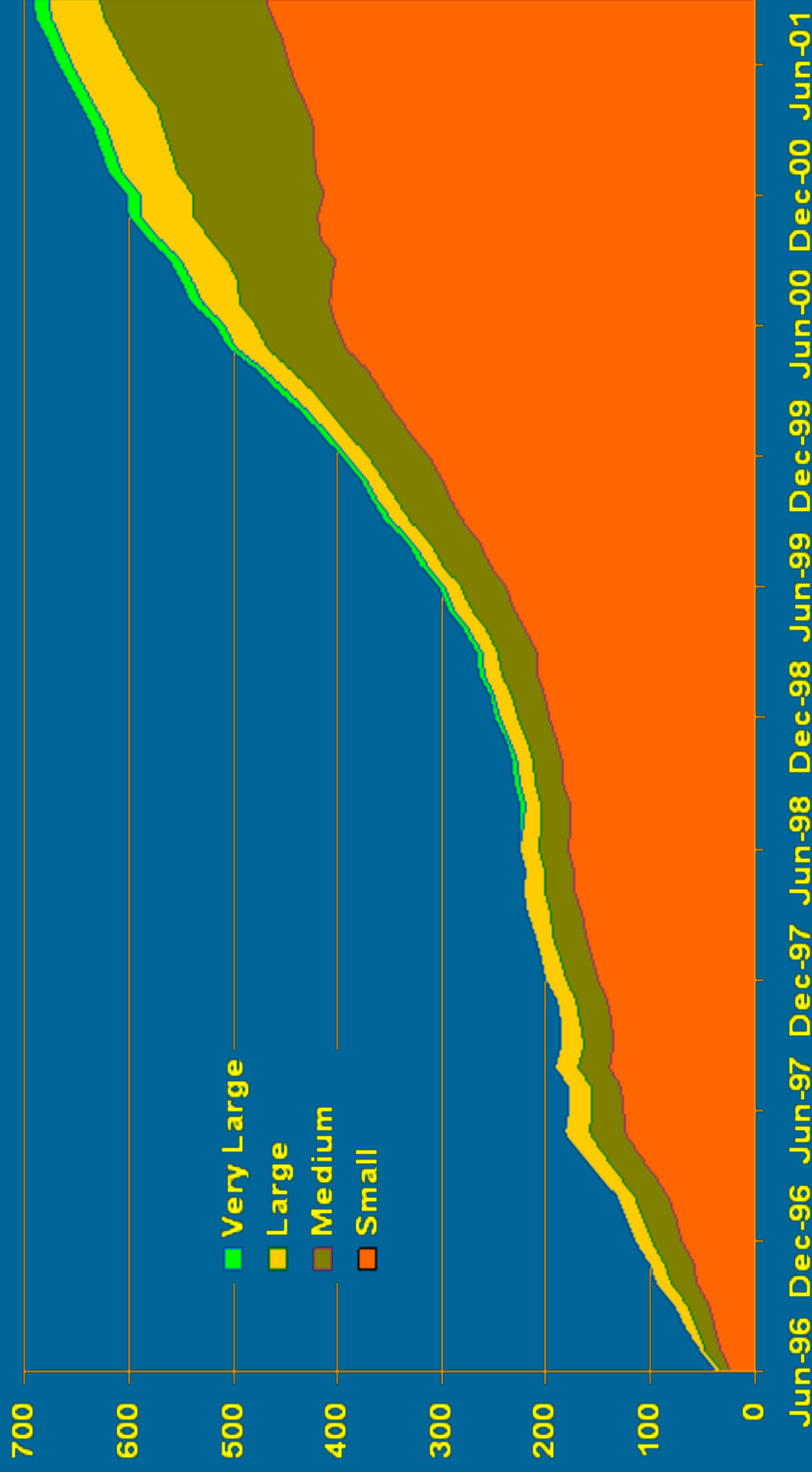
Overview

- Membership & Resource Statistics
- Service Developments
- Policy Developments
- Questions



APNIC

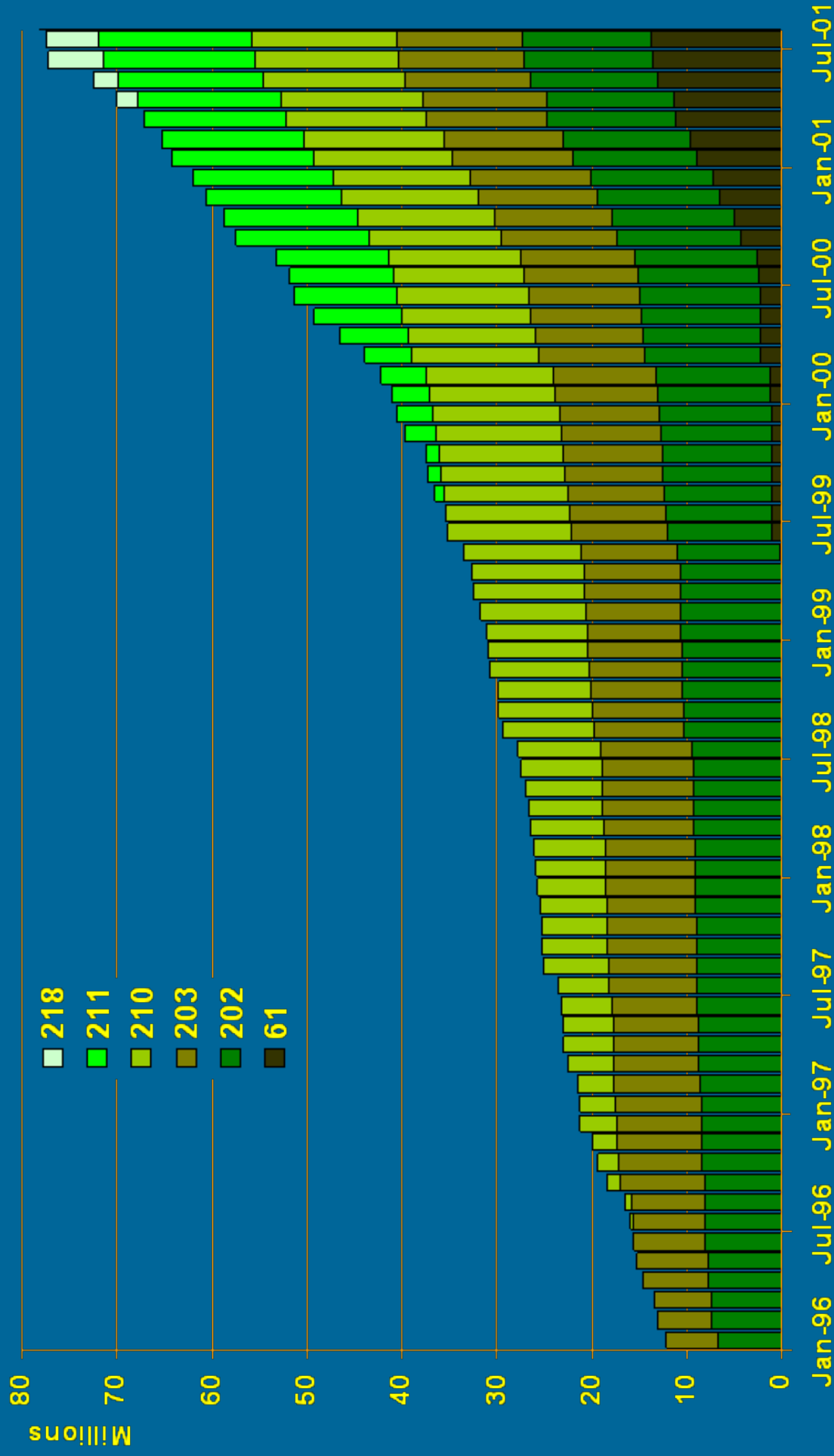
How many APNIC Members?





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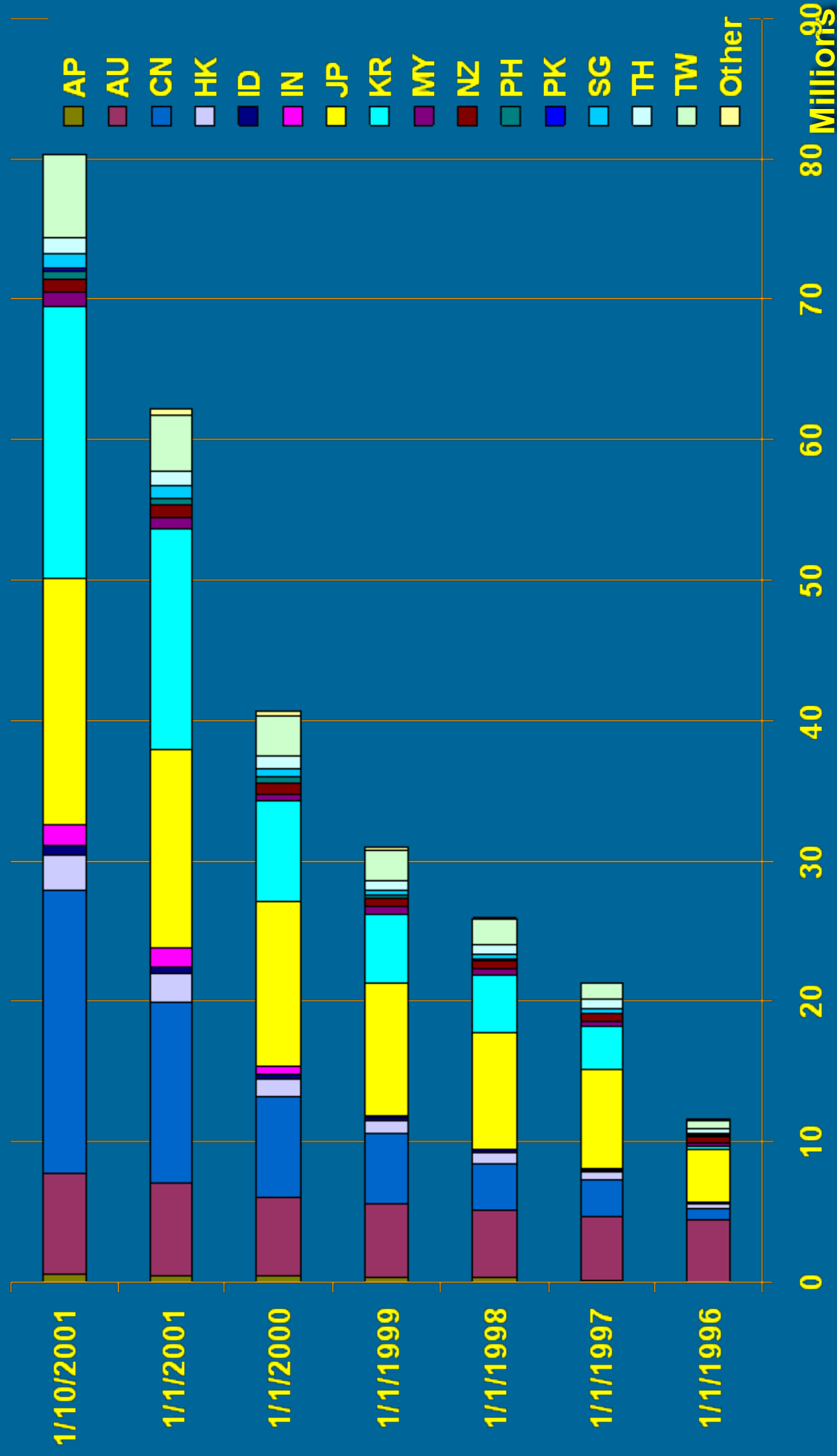
How many IPv4 Allocations?





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Where are IPv4 Allocations?

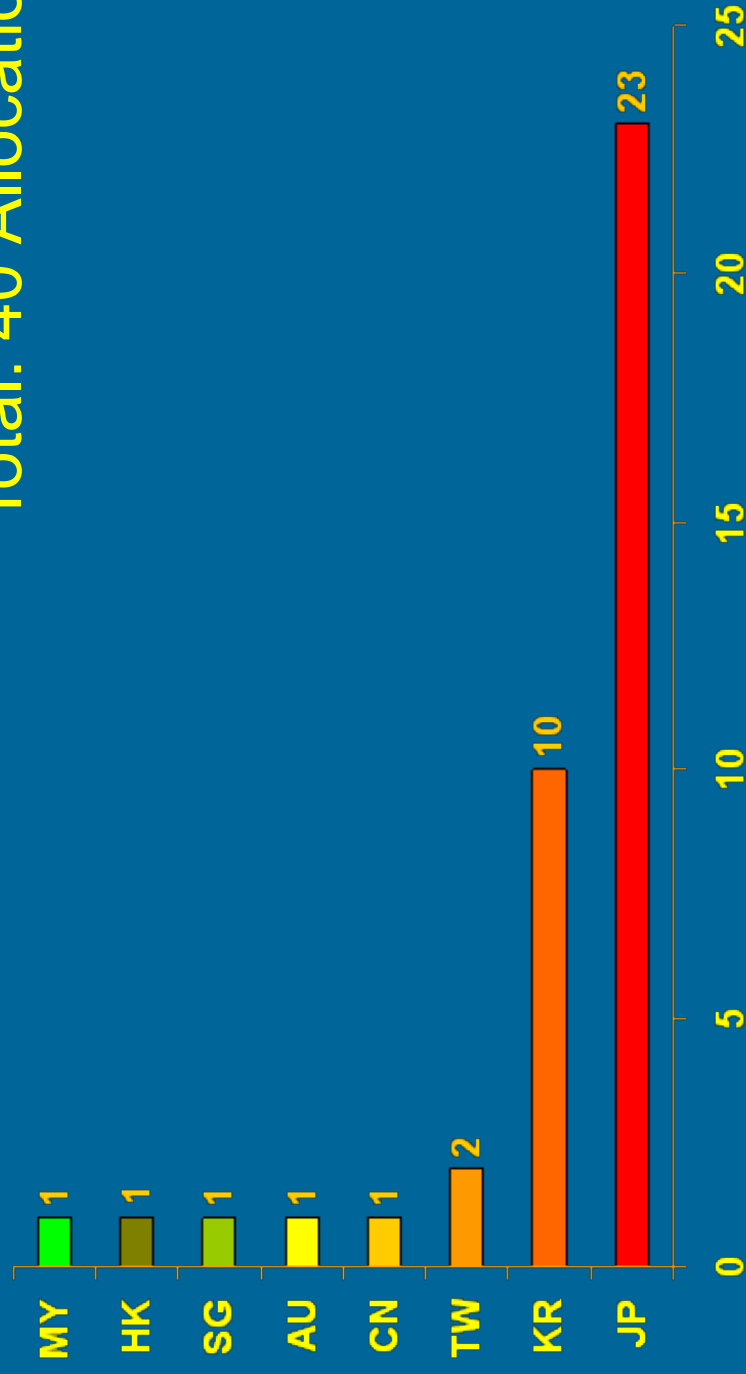




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IPv6 Allocations – Distribution

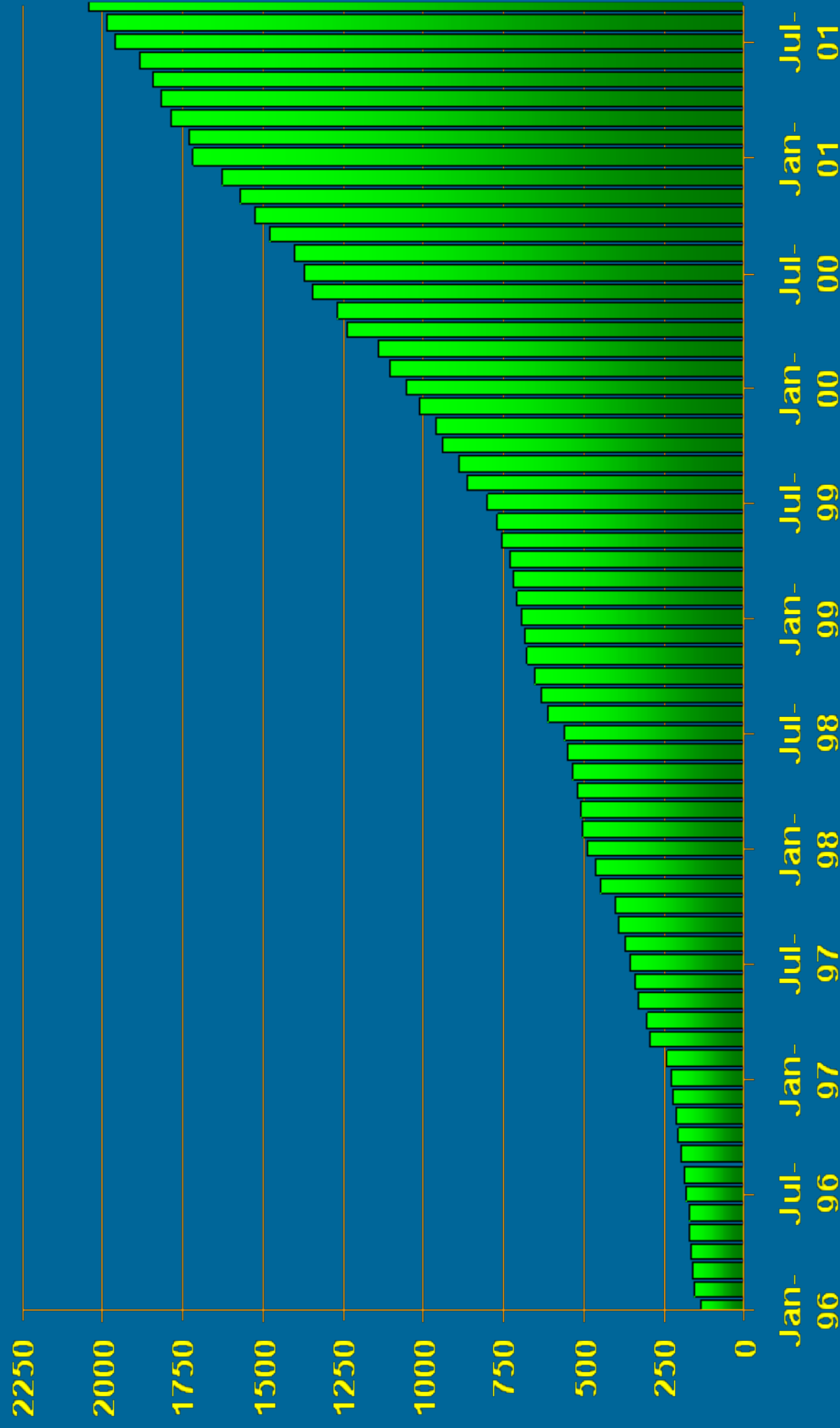
Total: 40 Allocations





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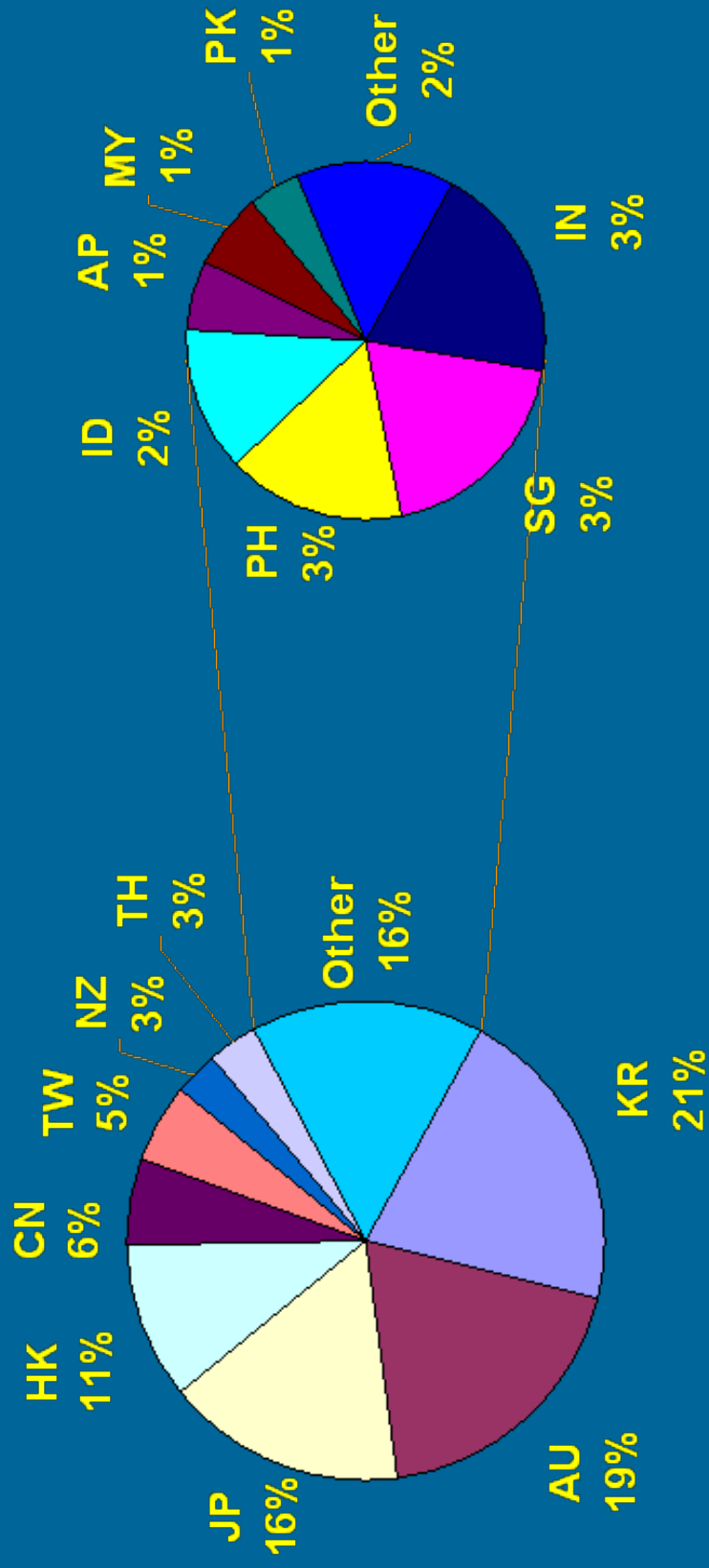
ASN Allocations - Total





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ASN Allocations - Distribution



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Service Developments



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Service Developments

- Training
 - 8 courses in 2000, 1 per month during 2001
 - Plan to double courses in 2002
 - “Expressions of Interest” may be submitted
- APNIC Seminars
 - Open events held in most training locations
 - ICANN/Governance seminars with APTLD
 - Expanding outreach with other AP* orgs
- All activities subsidised by APNIC



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Service Developments

- Internet Routing Registry (IRR)
- Work with RIPE NCC on v3 software
- Testing and transition planning underway
- IRR operating model to be developed
- Training materials to be developed
- Distributed service architecture
- POPs in major exchange points
- Model under development



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Service Developments

- Internal Services
 - Re-architecture and continual improvement
 - Sustained (and sustainable) staff growth
 - ISO certification being considered
- Publications
 - Website redesign recently completed
 - Joint RIR stats publication
 - 1st Quarterly newsletter launched in Taipei



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Service Developments

- Certification Authority
- Response to member concerns on security
- Email, website auth* and privacy
- Industry-standard X.509 certificates
- Trial certificates being issued now
- “MyAPNIC” website
- Access to members’ private information
- Use of certificates for secured access

MyAPNIC: Assignment Graph

My-APNIC Members Page Prototype

File Edit View Favorites Tools Help

Address <https://my-apnic.staff.apnic.net> Go

[Joanne Reichardt](#) | [Resources](#) | [News](#) | [Finance](#) | [Training](#) | [Sign Off](#)

Reminders:

- ASN 1001 is scheduled to be returned on July 31st, 2001.
- Your assignment window will be increased from 0 to 1 if the next two second opinion request is approved without comments.
- [The next IP allocation/assignment policy training will be held in Jakarta, July 24th, 2001.](#)

Your Internet Resources:

IPv4	Start IP	CIDR	Assignment Status	New Request
	203.166.0.0	/20		
	203.166.32.0	/20		
	203.166.48.0	/20		
	203.166.64.0	/19		
	203.166.96.0	/19		
	210.80.128.0	/19		

Legend:

- = Fully Assigned
- = Free
- = Partially Assigned
- = Contains Infrastructure
- = Make customer assignment from this level
- = Make infrastructure assignment from this level

IPv6

[New Request](#)

Local intranet

MyAPNIC: Assignment Table

My-APNIC Members Page Prototype

File Edit View Favorites Tools Help

Address ff.apnic.net/AssignIPv4.asp?IP=203.166.4. Go

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IPv4 assignments starting 203.166.4.0

Network Name	Start IP	Mask	Device	Subnets	Assign Date
ELL-LULLY	203.166.4.128	255.255.255.240	14/14/14	1/1/1	5/1/01
NOVARTIS-AU	203.166.4.144	255.255.255.248	6/6/6	1/1/1	5/1/01
ACCU-1	203.166.4.152	255.255.255.248	6/6/6	1/1/1	5/3/01
LINVATEC	203.166.4.16	255.255.255.248	6/6/6	1/1/1	2/21/00
COL-1	203.166.4.160	255.255.255.240	14/14/14	1/1/1	5/7/01
HELLMANN-LOGISTICS	203.166.4.192	255.255.255.248	6/6/6	1/1/1	5/7/01
ADVANTECH-AUSTRALIA	203.166.4.200	255.255.255.248	6/6/6	1/1/1	5/9/01
JAM-FAR	203.166.4.208	255.255.255.240	14/14/14	1/1/1	5/7/01
AOL	203.166.4.224	255.255.255.240	14/14/14	1/1/1	5/31/00
CORNING	203.166.4.24	255.255.255.248	6/6/6	1/1/1	2/22/00
LANDMARK	203.166.4.32	255.255.255.224	30/30/30	1/1/1	2/22/00
FAX-DELUXE	203.166.4.64	255.255.255.240	14/14/14	1/1/1	2/22/00
1-7NET3	203.166.4.8	255.255.255.248	6/6/6	1/1/1	5/23/00
PARADOX	203.166.4.80	255.255.255.240	14/14/14	1/1/1	4/6/00
CONTINUUS-1	203.166.4.96	255.255.255.224	30/30/30	1/1/1	4/10/00

IPv4 infrastructure starting 203.166.4.0

Done Local intranet

MyAPNIC: Edit Profile

My-APNIC Members Page Prototype

File Edit View Favorites Tools Help

Address [s://my-apnic.staff.apnic.net/ProfileEdit.asp](#) Go 'yes'

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My Profile

Full Name:	Joanne Reichardt		
Position/Title:	HR Manager		
Address:	33 Park Road, Milton		
City:	Brisbane	State:	QLD
Country:	Australia	Post Code:	4064
Phone:	61-7-3367-0490	Fax:	61-7-3367-0482
HP:		E-mail:	joanne@apnic.net
Update			

Done Local intranet

APNIC Update

Policy Developments



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Policy Developments

- Criteria for initial 'portable' allocation
- Used a /22 from upstream
- OR
- Demonstrate immediate need for a /22
- AND
- Show detailed plan for use of a /21 within a year
- Agree to renumber within one year
- Complied with policies in past (if applicable)



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Policy Developments

- Portable small multihoming assignment policy
- Applicant must be multihomed with provider based addresses
- OR
- Demonstrate a plan to multihome within one month
- AND
- Agree to renumber out of previously assigned space
- Evaluation according to rfc2050



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Policy Developments

- IPv4 Assignments to Exchange Points
 - Minimum /24 for the IXP transit LAN
 - But not to “critical infrastructure”
- IPv6 Assignments to Exchange Points
 - Assignment size /64
- Extension of IPv6 bootstrap period
 - Until the next IPv6 policy is implemented, on the understanding that the next policy takes account of bootstrapping needs
- New IPv6 policy principles
 - To be presented at meeting...



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Policy Developments

- Broadband WG
- ‘Bootstrapping process’ for evaluation of CMTS
- /24 to be assigned for every CMTS
- Purpose to simplify evaluation and request process
- Every network assignment greater than /30 must be registered
- ISP technical contact can be admin-c for residential networks
- Further discussion
- 2nd opinion for assignments > /30
- Supplying customer lists in evaluation process



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Policy Developments

- Membership voted for
- New membership agreement
- Document review policy
- Revised membership structure
- New non-resource “associate” category, with voting rights
- New “very small” for up to /22
- New “x-large” for greater than /10
- Address Council election
- Dr Kenny Huang (TW) elected
- Full details at
- <http://www.apnic.net/meetings/12/results/>



APNIC

Newest member of AP community



APNIC Update

Questions?



LACNIC

LACNIC STATUS

ARIN VIII
Miami , FL
October 2001

Germán Valdez
LACNIC's Interim Board

<http://www.lacnic.org>



LACNIC

Work based on:

Criteria for Establishment of New Regional Internet Registries Document.

ASO MoU.

ICANN ICP-2

RFC 2050, RFC 1918, RFC 1930, etc.

<http://www.lacnic.org>



LACNIC EMERGING RIRs DOCUMENT

The region of coverage should meet the scale to be defined by ICANN, given the need to avoid global address fragmentation.

Coverage:
Latin-American countries.

LACNIC Operational Center:
San Paulo, Brazil.

The establishment of this unique RIR in our region clearly will avoid:

- Fragmentation of address space allocated to our region;
- Difficulty for coordination and operation between the RIR;
- Avoid confusion for the community within our region.



LACNIC EMERGING RIRs DOCUMENT

The new RIR must demonstrate that it has the broad support of the LIRs (ISP community) in the proposed region.

Supporting Letter at LACNIC website

- 151 individual supports.
- 108 Companies.
- 16 Countries.

*The broad support of the LIR (ISP community) for the LACNIC region will be duly documented and presented during the course of the ARIN/LACNIC transition plan implementation.



LACNIC

EMERGING RIRs DOCUMENT

Bottom-up self-governance structure for setting local policies.

According to MoU we must establish mechanism for open forums for regional policies discussion.
Email lists at LACNIC website.

Local meetings in different countries.

In December 6th 2000 Buenos Aires, Argentine we had our first open regional forum for LACNIC policies discussion. More than 100 participants.

November 28th 2001, second LACNIC's open regional forum. Sao Paulo, Brazil.

<http://www.lacnic.org>

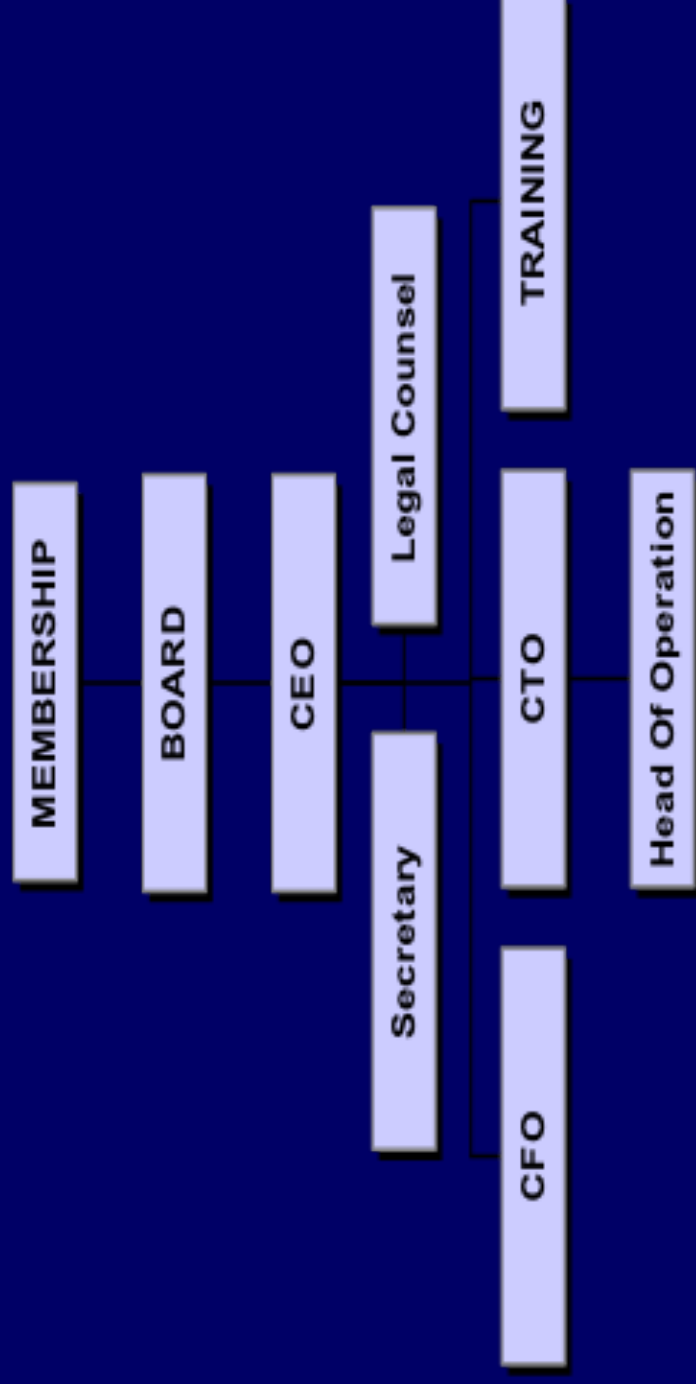


LACNIC

EMERGING RIRs DOCUMENT

Neutrality and impartiality in relation to all interested parties and particularly the LIRs

LACNIC is incorporated as an independent, not-for-profit and open bottom-up membership organization, as defined in our bylaws



<http://www.lacnic.org>



LACNIC

EMERGING RIRs DOCUMENT

Technical Expertise

In the start-up, staff and infrastructure will be provided by NIC-Brazil.

Both ARIN's National IRs, Brazil and Mexico, have been involved in LACNIC policies development. Feedback received from first open policy forum in Buenos Aires. December 2000.

NIC-Brazil agrees in guarantee all the operational resources for 2 years.

RIRs feedback and support.

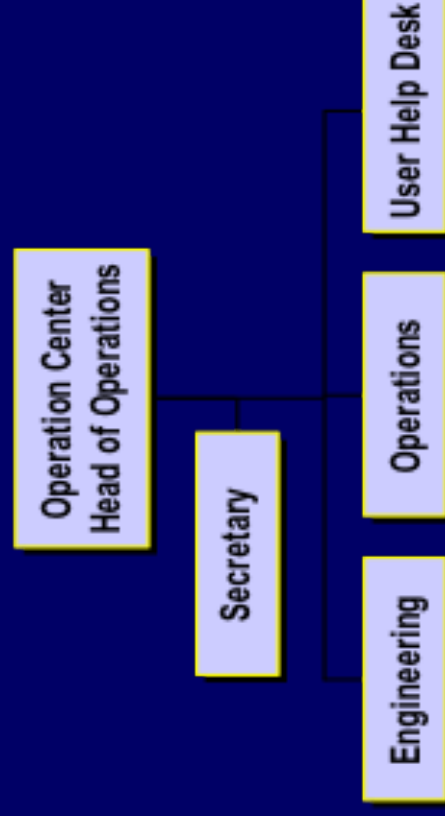
<http://www.lacnic.org>



Technical Expertise (2)

April 19th y 20th ARIN visited LACNIC's facility in Sao Paulo in order to verify infrastructure and make recommendations.

LACNIC's staff received two weeks of training in ARIN facilities during August.





LACNIC EMERGING RIRs DOCUMENT

Adherence to global policies regarding address space conservation, aggregation and registration.

IPv4, IPv6, ASN, Reverse DNS delegation LACNIC policies are based on

- RFC documents.
 - APNIC Policies.
 - ARIN Policies
 - RIPE Policies.
 - LACNIC's First Open Policy Forum feedback.
- Participation in all three RIR members meetings.

Part of ASO AC as observers and listeners.



Adherence to global policies regarding address space conservation, aggregation and registration. (2)

- /20 minimum allocation.
- Multi-homed policies.
- IPv6 policies according RIR recommendations.
- ASN policy based on RFC 1930.



Activity Plan

As from the work meetings between LACNIC and ARIN, an operations transition has been agreed upon which will be divided into 3 stages.

Stage 1 –

A two weeks training process received LACNIC's staff in ARIN installations in Virginia, USA. During this stage all kind of requirements were revised by both ARIN and LACNIC staffs together.



Activity Plan (2)

Stage 2 –

In this stage, LACNIC will begin to receive the requirements from LAC, and they will be evaluated by the LACNIC technical/operations staff. During this stage, a process will be applied whereby the ARIN staff will issue a second technical opinion. Right now adjusting details with ARIN for the outset of this stage.

Stage 3

Final recognition of LACNIC by ICANN

As from that moment, LACNIC will begin to apply its own policies and procedures.



LACNIC

EMERGING RIRs DOCUMENT

Funding Model

Not-for-profit organization.

In the start-up, NIC-Brazil will take care of the LACNIC costs. (2 years)

Final funding model in process according to Brazil Economy.

Structure fee same as ARIN. This will be discussed in Second Open Forum in Sao Paulo

<http://www.lacnic.org>



Record Keeping

English official language of the Registry System.

Core documentation (at least):

- Policies
- Bylaws
- Procedures
- Website
- Whois DB
- Service staff.
- Meeting (simultaneous translations)



LACNIC

EMERGING RIRs DOCUMENT

Confidentiality

Information collected by a RIR in the registration process must be kept in strict confidence and uses for registration purposes only.

LACNIC establishes herein that Board Members are not allowed to participate in discussions where there are conflicts of interest. All board members and staff members are required to sign non-disclosure statements

<http://www.lacnic.org>



LACNIC LACNIC NEXT STEPS

Start stage 2 in coordination with ARIN.

Increase documentation of ISP's support to LACNIC. Together with stage 2.

November 28th LACNIC's Second Open Policy Forum. Sao Paulo Brazil.

Send a detail and solid application recognition to ICANN Board signed also by ARIN in the eve of Ghana meeting in first quarter 2002.



LACNIC

LACNIC STATUS

Questions?

<http://www.lacnic.org>